

PTO/SB/08A (10-01)

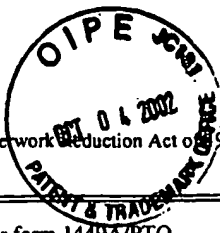
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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Sheet 1 of 3

Substitute for form 1449A/PTO										Docket Number 213839-00012		Application Number 09/706,507				
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)										Applicant McCafferty <i>et al.</i>						
										Filing Date November 3, 2000				Group Art Unit 1627		
U. S. PATENT DOCUMENTS																
EXAMINER INITIAL		DOCUMENT NUMBER							DATE		NAME		CLASS	SUB CLASS	FILING DATE IF APPROP.	
JL		1	6	3	3	1	4	1	5		Cabilly <i>et al.</i>		435	69.6	6/10/88	
FOREIGN PATENT DOCUMENTS																
		DOCUMENT NUMBER							DATE		COUNTRY		CLASS	SUB CLASS	Translation Yes No	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)																
JL		2	First Amended Complaint, Filed March 8, 2002 - Morphosys AG v. Cambridge Antibody Technology Limited, Case No. 1:00-CV-00146 (24 pages) (U.S. District Court, District of Columbia)(signed by John S. Skilton, Attorney for Plaintiff.)													
		3	Cambridge Antibody Technology Limited's Answer to First Amended Complaint, Filed March 22, 2002 - Morphosys AG v. Cambridge Antibody Technology Limited, Case No. 1:00-CV-00146 (30 pages) (U.S. District Court, District of Columbia)(signed by Brian H. Corcoran, Attorney for Defendant).													
		4	Ilichev, A.A., <i>et al.</i> , "M13 Filamentous Bacteriophage in Protein Engineering", Molekulyarnaya Biologiya, Vol. 24, No. 2, pp. 530-535, (March-April 1990).													
		5	Ilichev, A.A., <i>et al.</i> , "M13 Filamentous Bacteriophage for Protein Engineering", Molekulyarnaya Biologiya, Vol. 24, No. 2, pp. 530-535, (March-April 1990). (In Russian with Translated Abstract)													
		6	Redacted Agreement Between Medical Research Council and Cambridge Antibody Technology Limited and Cambridge Antibody Technology Group plc, made 01 January 1997													
		7	Deposition Transcript of David W. Clough, taken April 19, 2002 (Morphosys AG v. Cambridge Antibody Technology Limited, (U.S. District Court, Northern District of Illinois, Eastern Division).													
		8	E.I. du Pont de Nemours v. Cetus Corp., 19 USPQ2d 1174, (DC N.Cal. 1990).													
V		9	OddzOn Products Inc. v. Just Toys Inc., 43 USPQ2d 1641(CAFC 1997).													
EXAMINER												DATE CONSIDERED				
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JL	10	Deposition Transcript of George P. Smith, Ph.D., taken 14 May 2002, Morphosys AG v. Cambridge Antibody Technology Limited, Case No. 1:00-CV-00146 (30 pages) (U.S. District Court, District of Columbia.)							
	11	Deposition Transcript of Dr. David Chiswell, taken 29 April 2002; Morphosys AG v. Cambridge Antibody Technology Limited, Case No. 1:00-CV-00146 (30 pages) (U.S. District Court, District of Columbia.)							
	12	Deposition Transcript of Dr. Gregory Paul Winter, taken April 30, 2002; Morphosys AG v. Cambridge Antibody Technology Limited, Case No. 1:00-CV-00146 (30 pages) (U.S. District Court, District of Columbia.)							
	13	Vol. I - Deposition Transcript of Sean Malcolm Walton, taken 01 May 2002, Morphosys AG v. Cambridge Antibody Technology Limited, Case No. 1:00-CV-00146 (30 pages) (U.S. District Court, District of Columbia.)							
	14	Vol. II - Deposition Transcript of Sean Malcolm Walton, taken 02 May 2002, Morphosys AG v. Cambridge Antibody Technology Limited, Case No. 1:00-CV-00146 (30 pages) (U.S. District Court, District of Columbia.)							
	15	Chiswell memo, dated 30 July 1990, transmitting a copy of the Collaborative Agreement between Cambridge Antibody Technology and The Medical Research Council, dated July 27, 1995.							
	16	Declaration of George P. Smith, Ph.D., Under 37 C.F.R. § 1.132, executed 30 June 1995 (submitted during the prosecution of U.S. Application No. 08/322,352).							
V	17	Declaration of Brian K. Kay, Ph.D., executed 28 June 1998, (submitted during the prosecution of European Appin. No. 91913039.3)							
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JL	18	Abstract of George P. Smith, Grant No. 1R01GM41478-01A1, Project Start Date: July 1, 1989.							
	19	Smith Grant Application, entitled: "Filamentous Phage Physiology", dated November 1, 1988							
	20	Administration Agreement between Cambridge Antibody Technology Ltd. and Medical Research Council, dated 01 August 1991 (Redacted).							
	21	Fax from John McCafferty (of Cambridge Antibody Technology Limited) to Sean Walton (of Mewburn Ellis) regarding the Smith grant application.							
	22	E-mail message from John McCafferty (of Cambridge Antibody Technology Limited) to Brian Kay regarding the Smith grant application							
	23	Letter to Craig Panner (of the Academic Press) from John McCafferty (Cambridge Antibody Technology Limited) regarding the Smith grant application							
	24	Fax to John McCafferty, Ph.D. (of Cambridge Antibody Technology Limited) from Craig Panner (of Academic Press) dated June 10, 1996.							
	25	Smith, G. P., "1988 - A Year of Discovery", <i>Phage Display of Peptides and Proteins</i> , Academic Press, Inc. (1996), pp. xvii-xix.							
	26	Northern Telecom Inc. v. Datapoint Corp., 15 USPQ 1321., (CAFC 1990).							
EXAMINER /Jeffrey Lundgren/						DATE CONSIDERED 05/01/2006			
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Form PTO-1449 (Modified)

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
28111/32729ESerial No.
to be assigned

INFORMATION DISCLOSURE STATEMENT

Applicant
McCafferty, J. *et al.*Filing Date
herewithGroup
to be assigned

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

*Examiner Initials		Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate
JL	A1	4,593,002	06/03/86	Dulbecco	435	172.3	
	A2	4,816,397	03/28/89	Boss <i>et al.</i>	435	68	
	A3	4,946,778	08/07/90	Ladner <i>et al.</i>	435	69.6	
	A4	5,091,513	02/25/92	Huston <i>et al.</i>	530	387	
	A5	5,223,409	06/29/93	Ladner <i>et al.</i>	435	69.7	
	A6	5,403,484	04/04/95	Ladner <i>et al.</i>	435	235.1	
	A7	5,427,908	06/27/95	Dower <i>et al.</i>	435	5	
	A8	5,658,727	08/19/97	Barbas <i>et al.</i>	435	6	
	A9	5,688,666	11/18/97	Bass <i>et al.</i>	435	69.4	
	A10	5,750,373	05/12/98	Garrard <i>et al.</i>	435	69.4	
	A11	5,759,817	06/02/98	Barbas, C.	435	69.7	
	A12	5,770,356	06/23/98	Light <i>et al.</i>	435	5	
	A13	5,780,279	07/14/98	Matthews <i>et al.</i>	435	172.3	
	A14	5,821,047	10/13/98	Garrard <i>et al.</i>	435	5	
	A15	5,846,765	12/08/98	Matthew <i>et al.</i>	435	69.1	
↓	A16	5,849,500	12/15/98	Breitling <i>et al.</i>	435		
	A17	5,985,588	11/16/99	Breitling <i>et al.</i>	435	7.8	

EXAMINER

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INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>		Applicant McCafferty, J. et al.	
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FOREIGN PATENT DOCUMENTS								
*Examiner Initials		Document Number	Publication Date	Country	Class	Subclass	Translation	
							Yes	No
JL	B1	WO 83/02393	07/21/83	WIPO				
	B2	EP 2 137 631	10/10/84	EP				
	B3	EP 0 168 933	01/22/86	EP				
	B4	WO 88/06630	09/07/88	WIPO				
	B5	WO 88/09344	12/01/88	WIPO				
	B6	EP 0 324 162 A1	12/24/88	EP				
	B7	AU-B-27617/88	07/06/89	AU				
	B8	WO 90/02809	03/22/90	WIPO				
	B9	WO 90/05144	05/17/90	WIPO				
	B10	WO 90/14424	11/29/90	WIPO				
	B11	WO 90/14430	11/29/90	WIPO				
	B12	WO 90/14443	11/29/90	WIPO				
	B13	WO 91/10737	07/25/91	WIPO				
	B14	WO 91/17271	11/14/91	WIPO				
	B15	WO 92/06204	04/16/92	WIPO				
↓	B16	WO 92/09690	06/11/92	WIPO				
	B17	WO 92/18619	10/29/92	WIPO				

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		
JL	C1	Amit, A.G. <i>et al.</i> , "Three-Dimensional Structure of an Antigen-Antibody Complex at 2.8 Å Resolution," <i>Science</i> , 233:747-753 (August, 1986).
	C2	Armstrong, J. <i>et al.</i> , "Domain Structure of Bacteriophage fd Adsorption Protein," <i>FEBS Lett.</i> , 135(1):167-172 (November, 1981).
	C3	Bass <i>et al.</i> , "Hormone Phage: An Enrichment Method for Variant Proteins With Altered Binding Properties," <i>Proteins: Structure, Function and Genetics</i> , 8:309-314 (1990).
	C4	Beck, E. <i>et al.</i> , "Nucleotide sequence and genome organisation of filamentous bacteriophages f1 and fd," <i>Gene</i> , 16:35-58 (1981).
	C5	Beck, E. <i>et al.</i> , "Nucleotide sequence of bacteriophage fd DNA," <i>Nucleic Acids Research</i> , 5(12):4495-4503 (1978).
	C6	Berek, C. <i>et al.</i> , "Molecular events during maturation of the immune response to oxazolone," <i>Nature</i> , 316:412-418 (August, 1985).
	C7	Better, M. <i>et al.</i> , "Escherichia coli Secretion of an Active Chimeric Antibody Fragment," <i>Science</i> , 240:1041-1043 (May, 1988).
	C8	Bhat, T.N. <i>et al.</i> , "Small rearrangements in structures of Fv and Fab fragments of antibody D1.3 on antigen binding," <i>Nature</i> , 347:483-485 (October, 1990).
	C9	Bird, R.E. <i>et al.</i> , "Single chain antibody variable regions," <i>TIBTECH</i> , 9:132-137 (April, 1991).
	C10	Bird, R.E. <i>et al.</i> , "Single-Chain Antigen-Binding Proteins," <i>Science</i> , 242:423-426 (October, 1988).
	C11	Boeke, J.D. <i>et al.</i> , "Effects of Bacteriophage f1 Gene III Protein on the Host Cell Membrane," <i>Mol. Gen. Genet.</i> , 186:185-192 (1982).
	C12	Boyle, W., "An Extension of the ⁵¹ Cr-Release Assay for the Estimation of Mouse Cytotoxins," <i>Transplantation</i> , 6(6):761-764 (1968).
	C13	Branden, C. <i>et al.</i> , in <i>Introduction to Protein Structure</i> , Garland Publishing, Inc., New York and London, pp.26-29 (1991).
✓	C14	Brenna, O. <i>et al.</i> , "Affinity-Chromatography Purification of Alkaline Phosphatase from Calf Intestine," <i>Biochem. J.</i> , 151:291-296 (1975).

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		
JL	C15	Brownstone, A. et al., "Biological Studies with an Iodine-Containing Synthetic Immunological Determinant 4-Hydroxy-3-iodo-5-nitrophenylacetic Acid (NIP) and Related Compounds," <i>Immunology</i> , 10:481-492 (1966)
	C16	Brownstone, A. et al., "Chemical and Serological Studies with an Iodine-Containing Synthetic Immunological Determinant 4-Hydroxy-3-iodo-5-nitrophenylacetic Acid (NIP) and Related Compounds," <i>Immunology</i> , 10:465-479 (1966).
	C17	Carter, P. et al., "Improved oligonucleotide site-directed mutagenesis using M13 vectors" <i>Nucl. Acids Res.</i> , 13(12):4431-4443 (1985).
	C18	Casali, P. et al., "Human Monoclonals from Antigen-Specific Selection of B Lymphocytes and Transformation by EBV," <i>Science</i> , 234:476-479 (October, 1986).
	C19	Chaidaroglou, A. et al., "Function of Arginine-166 in the Active Site of <i>Escherichia coli</i> Alkaline Phosphatase," <i>Biochemistry</i> , 27:8338-8343 (1988).
	C20	Chang, C. N. et al., "Nucleotide sequence of the alkaline phosphatase gene of <i>Escherichia coli</i> ," <i>Gene</i> , 44:121-125 (1986).
	C21	Chaudhary, V.K. et al., "A rapid method of cloning functional variable-region antibody genes in <i>Escherichia coli</i> as single-chain immunotoxins," <i>Proc. Natl. Acad. Sci., USA</i> , 87:1066-1070 (February, 1990).
	C22	Chiang, Y.L. et al., "Direct cDNA Cloning of the Rearranged Immunoglobulin Variable Region," <i>BioTechniques</i> , 7(4):360-366 (1989).
	C23	Choo, Y. et al., "In vivo repression by a site-specific DNA-binding protein designed against an oncogenic sequence," <i>Nature</i> , 372:642-645 (1994).
	C24	Choo, Y. et al., "Selection of DNA binding sites for zinc fingers using rationally randomized DNA reveals coded interactions," <i>Proc. Natl. Acad. Sci., USA</i> , 91:11168-11172 (1994).
	C25	Choo Y. et al., "Toward a code for the interactions of zinc fingers with DNA: Selection of randomized fingers displayed on phage," <i>Proc. Natl. Acad. Sci., USA</i> , 91:11163-11167 (1994).
↓	C26	Chothia, C. et al., "Canonical Structures for the Hypervariable Regions of Immunoglobulins," <i>J. Mol. Biol.</i> , 196:901-917 (1987).

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		
JL	C27	Chuchana, P. <i>et al.</i> , "Definition of the human immunoglobulin variable lambda (IGLV) gene subgroups," <i>Eur. J. Immunol.</i> , 20:1317-1325 (1990).
	C28	Clackson, T. <i>et al.</i> , "'Sticky feet'-directed mutagenesis and its application to swapping antibody domains," <i>Nucl. Acids Res.</i> , 17(24):10163-10170 (1989).
	C29	Cunningham, C. <i>et al.</i> , "Antibody engineering - how to be human," <i>Trends Biotechnology</i> , 10(4):112-113 (April, 1992).
	C30	Curti, B.D., "Physical Barriers to drug delivery in tumors," <i>Critical Reviews in Oncology/Hematology</i> , 14:29-39 (1993).
	C31	Cwirla, S.E. <i>et al.</i> , "Peptides on phage: A vast library of peptides for identifying ligands," <i>Proc. Natl. Acad. Sci., USA</i> , 87:6378-6382 (1990).
	C32	De Bellis, D. <i>et al.</i> , "Regulated expression of foreign genes fused to <i>lac</i> : control by glucose levels in growth medium," <i>Nucl. Acids Res.</i> , 18(5):1311 (1980).
	C33	De la Cruz <i>et al.</i> , "Immunogenicity and Epitope Mapping of Foreign Sequences via Genetically Engineered Filamentous Phage," <i>J. Biol. Chem.</i> , 263(9):4318-4322 (1988).
	C34	Dildrop, R., "A new classification of mouse V _H sequences," <i>Immunol. Today</i> , 5(4):85-86 (1984).
	C35	Dillman, R.O., "Monoclonal Antibodies for Treating Cancer," <i>Annals of Internal Medicine</i> , 111:592-603 (1989).
	C36	Dower, W.J. <i>et al.</i> , "High efficiency transformation of <i>E. coli</i> by high voltage electroporation," <i>Nucl. Acids Res.</i> , 16(13):6127-6145 (1988).
	C37	Eckert, K.A. <i>et al.</i> , "High fidelity DNA synthesis by the <i>Thermus aquaticus</i> DNA polymerase," <i>Nucl. Acids Res.</i> , 18(13):3739-3744 (1990).
	C38	Eisen, H.N., "Determination of Antibody Affinity For Haptens and Antigens by Means of Fluorescence Quenching," <i>Meth. Med. Res.</i> , 10:115-121 (1964).
	C39	Evan, G.I. <i>et al.</i> , "Isolation of Monoclonal Antibodies Specific for Human c-myc Proto-Oncogene Product," <i>Mol. Cell. Biol.</i> , 5(12):3610-3616 (December, 1985).
↓	C40	Fikes, J.D. <i>et al.</i> , "Maturation of <i>Escherichia coli</i> Maltose-binding Protein by Signal Peptidase I in Vivo," <i>J. Biological Chemistry</i> , 265(6):3417-3423 (1990).

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JL	C41	Galfrè, G. <i>et al.</i> , "Preparation of Monoclonal Antibodies: Strategies and Procedures," <i>Methods Enzymology</i> , 73:3-46 (1981).
	C42	Gherardi, E. <i>et al.</i> , "A single-step procedure for cloning and selection of antibody-secreting hybridomas," <i>J. Immunol. Methods</i> , 126:61-68 (1990).
	C43	Glockshuber, R. <i>et al.</i> , "The Disulfide Bonds in Antibody Variable Domains: Effects on Stability, Folding in Vitro, and Functional Expression in <i>Escherichia coli</i> ," <i>Biochemistry</i> , 31:1270-1279 (1992).
	C44	Goldstein, G., "Overview of the Development of ORTHOCLONE OKT3: Monoclonal Antibody for Therapeutic Use in Transplantation," <i>Transplantation Proceedings</i> , Vol. XIX, No. 2, Suppl. 1:1-6 (April, 1987).
	C45	Gorick, B.D. <i>et al.</i> , "Three Epitopes on the Human Rh Antigen D Recognized by ¹²⁵ I-Labelled Human Monoclonal IgG Antibodies," <i>Vox. Sang.</i> , 55:165-170 (1988).
	C46	Gottesman, M.E. <i>et al.</i> , "Transcription Antitermination by Bacteriophage Lambda N Gene Product," <i>J. Mol. Biol.</i> , 140:57-75 (1980).
	C47	Grant, R.A. <i>et al.</i> , "Structure of the Filamentous Bacteriophage f1," <i>J. Biol. Chem.</i> , 256(1):539-546 (January, 1981).
	C48	Griffiths, G.M. <i>et al.</i> , "Somatic mutation and the maturation of immune response to 2-phenyl oxazolone," <i>Nature</i> , 312:271-275 (1984).
	C49	Gronwald, R.G.K. <i>et al.</i> , "Cloning and expression of a cDNA coding for the human platelet-derived growth factor receptor: Evidence for more than one receptor class," <i>Proc. Natl. Acad. Sci., USA</i> , 85:3435-3439 (May, 1988).
	C50	Harper, M. <i>et al.</i> , "Antigen Specificity and Cross-Reactivity of Monoclonal Anti-Lysozyme Antibodies," <i>Molec. Immunol.</i> , 24(2):97-108 (1987).
	C51	Harris, W.J. <i>et al.</i> , "Therapeutic antibodies - the coming of age," <i>Trends Biotechnology</i> , 11:42-44 (February, 1993).
	C52	Hird, V. <i>et al.</i> , "Immunotherapy with Monoclonal Antibodies," in <i>Genes and Cancer</i> , Edited by D. Carney and K. Sikora, John Wiley & Sons, Ltd., pp.183-189 (1990).
↓	C53	Horton, R.M. <i>et al.</i> , "Engineering hybrid genes without the use of restriction enzymes: gene splicing by overlap extension," <i>Gene</i> , 77:61-68 (1989).

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JL	C54	Hughes-Jones, N.C. <i>et al.</i> , "Nucleotide sequences and three-dimensional modelling of the V _H and V _L domains of two human monoclonal antibodies specific for the D antigen of the human Rh-blood-group system," <i>Biochem. J.</i> , 268:135-140 (1990).
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